



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QDF-33-LED35-HO-FWA-D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] QDF-33-LED35-HO-FWA-D1

[TESTLAB] Intertek

[ISSUE DATE] March 28, 2017

[MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7823
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	132
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.19 ft
Luminous Width (90-270)	3.19 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2702	2679	2685
55	2625	2592	2600
65	2510	2468	2479
75	2350	2293	2323
85	2165	2076	2111

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	2682.568	2682.568	2682.568	2682.568	2682.568	2682.568	2682.568	2682.568	2682.568	2682.568
2.5	2688.605	2677.834	2678.737	2676.698	2685.767	2676.698	2678.737	2677.834	2688.605	2677.834
5.0	2680.014	2669.074	2669.255	2667.526	2676.943	2667.526	2669.255	2669.074	2680.014	2669.074
7.5	2667.127	2656.381	2653.530	2652.317	2663.592	2652.317	2653.530	2656.381	2667.127	2656.381
10.0	2644.977	2634.683	2634.154	2632.103	2640.436	2632.103	2634.154	2634.683	2644.977	2634.683
12.5	2618.107	2607.903	2606.277	2606.148	2613.424	2606.148	2606.277	2607.903	2618.107	2607.903
15.0	2586.166	2574.221	2572.931	2571.654	2580.993	2571.654	2572.931	2574.221	2586.166	2574.221
17.5	2548.124	2536.604	2535.998	2532.218	2541.081	2532.218	2535.998	2536.604	2548.124	2536.604
20.0	2505.515	2493.415	2491.261	2490.435	2497.298	2490.435	2491.261	2493.415	2505.515	2493.415
22.5	2456.960	2446.124	2442.770	2440.216	2447.968	2440.216	2442.770	2446.124	2456.960	2446.124
25.0	2402.586	2391.196	2388.396	2386.048	2392.692	2386.048	2388.396	2391.196	2402.586	2391.196
27.5	2343.633	2334.229	2329.637	2326.850	2334.423	2326.850	2329.637	2334.229	2343.633	2334.229
30.0	2277.276	2270.374	2263.718	2262.079	2269.355	2262.079	2263.718	2270.374	2277.276	2270.374
32.5	2209.035	2202.133	2196.173	2193.374	2201.179	2193.374	2196.173	2202.133	2209.035	2202.133
35.0	2138.278	2129.042	2123.095	2121.315	2126.488	2121.315	2123.095	2129.042	2138.278	2129.042
37.5	2062.994	2052.132	2045.450	2044.211	2048.004	2044.211	2045.450	2052.132	2062.994	2052.132
40.0	1980.601	1971.507	1963.780	1962.206	1968.088	1962.206	1963.780	1971.507	1980.601	1971.507
42.5	1894.223	1887.412	1877.401	1876.756	1883.645	1876.756	1877.401	1887.412	1894.223	1887.412
45.0	1805.084	1797.486	1789.565	1787.501	1793.797	1787.501	1789.565	1797.486	1805.084	1797.486
47.5	1713.997	1706.347	1699.111	1695.937	1703.019	1695.937	1699.111	1706.347	1713.997	1706.347
50.0	1620.588	1611.210	1603.315	1600.348	1605.985	1600.348	1603.315	1611.210	1620.588	1611.210
52.5	1524.380	1513.918	1506.307	1503.495	1509.339	1503.495	1506.307	1513.918	1524.380	1513.918
55.0	1422.547	1413.724	1404.733	1401.817	1409.157	1401.817	1404.733	1413.724	1422.547	1413.724
57.5	1318.780	1312.123	1300.810	1299.843	1307.931	1299.843	1300.810	1312.123	1318.780	1312.123
60.0	1213.748	1206.963	1197.430	1196.449	1202.151	1196.449	1197.430	1206.963	1213.748	1206.963
62.5	1109.077	1100.176	1091.108	1090.669	1095.520	1090.669	1091.108	1100.176	1109.077	1100.176
65.0	1002.201	992.023	985.483	982.116	989.765	982.116	985.483	992.023	1002.201	992.023
67.5	895.931	885.224	878.451	875.562	884.488	875.562	878.451	885.224	895.931	885.224
70.0	785.920	778.089	770.607	769.021	777.328	769.021	770.607	778.089	785.920	778.089
72.5	679.430	671.832	664.144	662.170	672.309	662.170	664.144	671.832	679.430	671.832
75.0	574.553	565.407	560.621	558.957	567.961	558.957	560.621	565.407	574.553	565.407
77.5	471.882	463.291	457.782	457.666	464.477	457.666	457.782	463.291	471.882	463.291
80.0	369.559	362.400	358.362	357.743	365.083	357.743	358.362	362.400	369.559	362.400
82.5	270.565	265.340	263.199	262.334	268.655	262.334	263.199	265.340	270.565	265.340
85.0	178.304	173.092	170.977	170.925	173.840	170.925	170.977	173.092	178.304	173.092
87.5	86.004	82.134	82.547	82.779	85.385	82.779	82.547	82.134	86.004	82.134
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	2682.568	2682.568	2682.568	2682.568	2682.568	2682.568	2682.568
2.5	2678.737	2676.698	2685.767	2676.698	2678.737	2677.834	2688.605
5.0	2669.255	2667.526	2676.943	2667.526	2669.255	2669.074	2680.014
7.5	2653.530	2652.317	2663.592	2652.317	2653.530	2656.381	2667.127
10.0	2634.154	2632.103	2640.436	2632.103	2634.154	2634.683	2644.977
12.5	2606.277	2606.148	2613.424	2606.148	2606.277	2607.903	2618.107
15.0	2572.931	2571.654	2580.993	2571.654	2572.931	2574.221	2586.166
17.5	2535.998	2532.218	2541.081	2532.218	2535.998	2536.604	2548.124
20.0	2491.261	2490.435	2497.298	2490.435	2491.261	2493.415	2505.515
22.5	2442.770	2440.216	2447.968	2440.216	2442.770	2446.124	2456.960
25.0	2388.396	2386.048	2392.692	2386.048	2388.396	2391.196	2402.586
27.5	2329.637	2326.850	2334.423	2326.850	2329.637	2334.229	2343.633
30.0	2263.718	2262.079	2269.355	2262.079	2263.718	2270.374	2277.276
32.5	2196.173	2193.374	2201.179	2193.374	2196.173	2202.133	2209.035
35.0	2123.095	2121.315	2126.488	2121.315	2123.095	2129.042	2138.278
37.5	2045.450	2044.211	2048.004	2044.211	2045.450	2052.132	2062.994
40.0	1963.780	1962.206	1968.088	1962.206	1963.780	1971.507	1980.601
42.5	1877.401	1876.756	1883.645	1876.756	1877.401	1887.412	1894.223
45.0	1789.565	1787.501	1793.797	1787.501	1789.565	1797.486	1805.084
47.5	1699.111	1695.937	1703.019	1695.937	1699.111	1706.347	1713.997
50.0	1603.315	1600.348	1605.985	1600.348	1603.315	1611.210	1620.588
52.5	1506.307	1503.495	1509.339	1503.495	1506.307	1513.918	1524.380
55.0	1404.733	1401.817	1409.157	1401.817	1404.733	1413.724	1422.547
57.5	1300.810	1299.843	1307.931	1299.843	1300.810	1312.123	1318.780
60.0	1197.430	1196.449	1202.151	1196.449	1197.430	1206.963	1213.748
62.5	1091.108	1090.669	1095.520	1090.669	1091.108	1100.176	1109.077
65.0	985.483	982.116	989.765	982.116	985.483	992.023	1002.201
67.5	878.451	875.562	884.488	875.562	878.451	885.224	895.931
70.0	770.607	769.021	777.328	769.021	770.607	778.089	785.920
72.5	664.144	662.170	672.309	662.170	664.144	671.832	679.430
75.0	560.621	558.957	567.961	558.957	560.621	565.407	574.553
77.5	457.782	457.666	464.477	457.666	457.782	463.291	471.882
80.0	358.362	357.743	365.083	357.743	358.362	362.400	369.559

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CANDELA TABULATION - (Cont.)

82.5	263.199	262.334	268.655	262.334	263.199	265.340	270.565
85.0	170.977	170.925	173.840	170.925	170.977	173.092	178.304
87.5	82.547	82.779	85.385	82.779	82.547	82.134	86.004
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	980.82	N.A.	12.50
0-30	2082.78	N.A.	26.60
0-40	3412.88	N.A.	43.60
0-60	6055.86	N.A.	77.40
0-80	7631.59	N.A.	97.60
0-90	7822.57	N.A.	100.00
10-90	7568.7	N.A.	96.80
20-40	2432.06	N.A.	31.10
20-50	3815.69	N.A.	48.80
40-70	3621.94	N.A.	46.30
60-80	1575.73	N.A.	20.10
70-80	596.77	N.A.	7.60
80-90	190.98	N.A.	2.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	7822.57	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	253.87
10-20	726.95
20-30	1101.95
30-40	1330.1
40-50	1383.63
50-60	1259.35
60-70	978.96
70-80	596.77
80-90	190.98
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

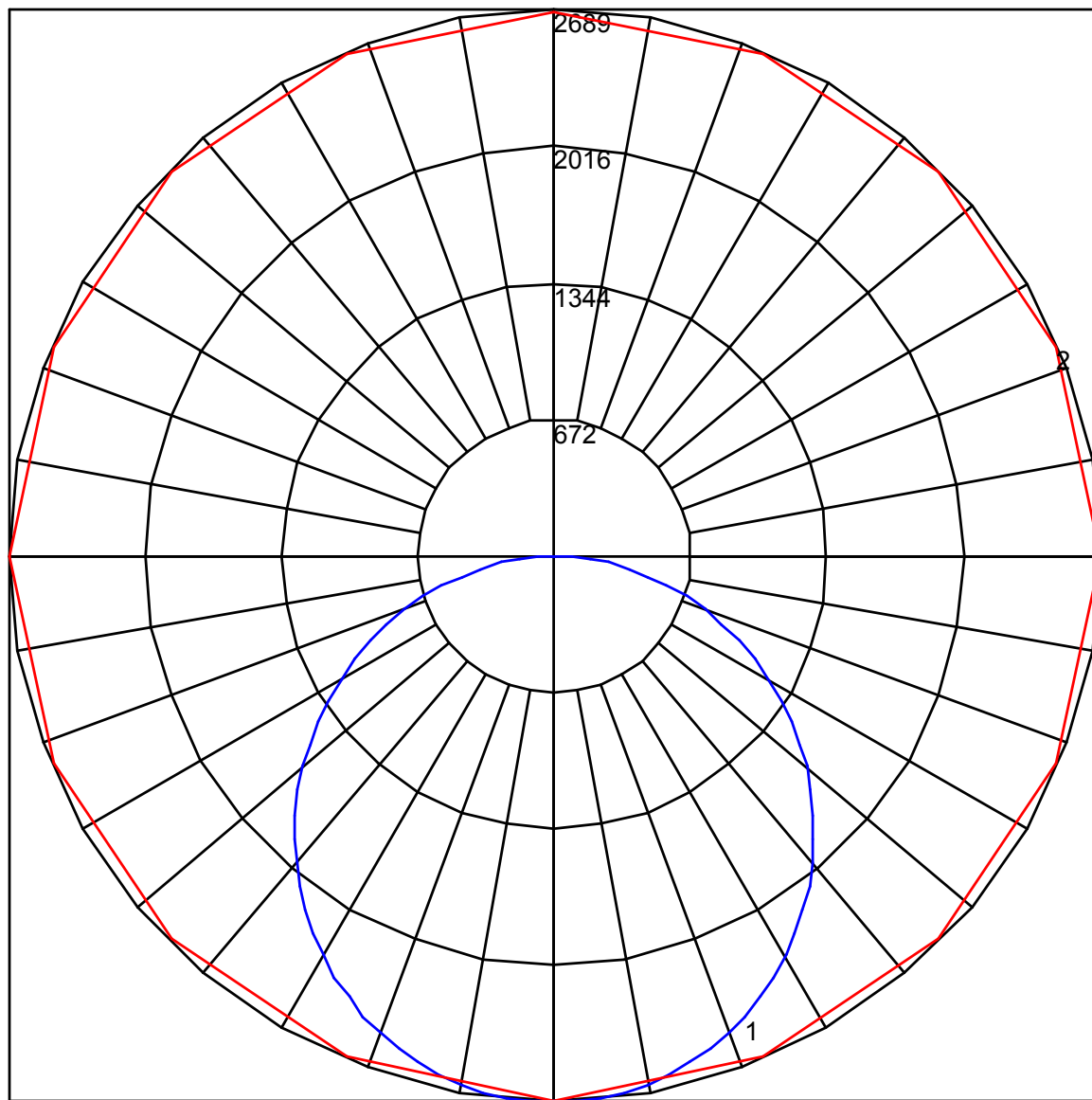
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 2688.605 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)